Listing of Claims:

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1. (Currently Amended) A radar oscillator comprising:

an oscillating unit having amplifier means, and in order to contribute to oscillation at a predetermined frequency together with the amplifier means, at least one of a feedback circuit which applies a positive feedback from an output side to an input side of the amplifier means and a resonator which resonates at the predetermined frequency, the feedback circuit and the resonator cooperating with the amplifier means to enable oscillation at a predetermined frequency, the resonator being connected to an input section or output section of the amplifier means, and the oscillating unit outputting and stopping an oscillation signal having the predetermined frequency from the output side of the amplifier means in an oscillating state and an oscillation stop state, respectively; and

switching means connected to the oscillating unit, the switching means being composed of including an electronic switch which [[,]] receives a pulse signal indicating a transmission timing of a radar wave [[,]] and alternately changes an operating state of the oscillating unit between to the oscillating state at a first level of the pulse signal and the oscillation stop state at first and a second levels level of the pulse signal in order to intermit an output of the oscillation signal in response to a level of the pulse signal;

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wherein the amplifier means includes an amplifier provided in an output stage of the oscillating unit;

wherein the oscillating unit has a power supply line for the amplifier means in the oscillating unit; and

wherein the switching means includes a first switch which opens or closes the power supply line for the amplifier means in the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby changing the operating state of the oscillating unit to the oscillating state or the oscillation stop state.

2. (Currently Amended) A radar oscillator according to claim 1, characterized in that the oscillating unit has both of the feedback circuit which applies a positive feedback from the output side to the input side of the amplifier means and the resonator which resonates at the predetermined frequency, the resonator being connected to the input section or output section of the amplifier means, and outputs and stops the oscillation signal having the predetermined frequency determined by the resonator from the output side of the amplifier means in the oscillating state and the oscillation stop state wherein the oscillating unit has a high frequency earth line, and the switching means includes a second switch which opens or closes between at least one of the input section and the output section

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of the amplifier means in the oscillating unit and the high frequency earth line of the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby changing the operating state of the oscillating unit to the oscillating state or the oscillation stop state.

3. (Withdrawn-Currently Amended) A radar oscillator according to claim 1, characterized in that wherein:

the oscillating unit has a plurality of amplifiers cascade-connected to each other as the amplifier means; $\frac{also\ has}{both\ of}$

the feedback circuit which applies is arranged to apply a positive feedback to the input side of an amplifier at a first stage from the output side of an amplifier at a final stage of the plurality of amplifiers and the resonator which resonates at the predetermined frequency, and the resonator being is connected to a cascade-connecting section of the plurality of amplifiers; and

the oscillating unit outputs and stops the oscillation signal having the predetermined frequency determined by the resonator from the output side of the amplifier at the final stage of the plurality of amplifiers in the oscillating state and the oscillation stop state.

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Claims 4-8 (Canceled).

 (Currently Amended) A radar oscillator according to claim 1, characterized in that comprising:

an oscillating unit having amplifier means and at least one of a feedback circuit which applies a positive feedback from an output side to an input side of the amplifier means and a resonator which resonates at the predetermined frequency, the at least one of the feedback circuit and the resonator cooperating with the amplifier means to enable oscillation at a predetermined frequency, the resonator being connected to an input section or output section of the amplifier means, and the oscillating unit outputting and stopping an oscillation signal having the predetermined frequency from the output side of the amplifier means in an oscillating state and an oscillation stop state, respectively; and

switching means connected to the oscillating unit, the switching means including an electronic switch which receives a pulse signal indicating a transmission timing of a radar wave and changes an operating state of the oscillating unit to the oscillating state and the oscillation stop state at first and second levels of the pulse signal in order to intermit an output of the oscillation signal in response to a level of the pulse signal;

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wherein the oscillating unit selectively has a high frequency earth line, a power supply line for the amplifier means in the oscillating unit, and an element to set the oscillating unit outside of an oscillation enable a normal operation range, and

wherein the switching means includes a plurality of switches
obtained by selectively combining:

a first switch which opens or closes between at least one of the input section and the output section of the amplifier means in the oscillating unit and the high frequency earth line based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state;

a second switch which connects or disconnects the element to set the oscillating unit outside of the oscillation enable normal operation range to and from the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state; and

a third switch which opens or closes the power supply line for the amplifier means in the oscillating unit based on the pulse signal indicating the transmission timing of the radar

wave, thereby alternately changing the operating state of the oscillating unit between \underline{to} the oscillating state \underline{and} or the oscillation stop state.

Claim 10 (Canceled).

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11. (Currently Amended) A radar oscillator according to claim [[2]] 1, characterized in that wherein the oscillating unit has an element to set a resonance frequency of the oscillator in the oscillating unit to a frequency which prevents a positive feedback from the output side to the input side of the amplifier means, thereby setting the resonance frequency outside of an oscillation enable a normal operation range in the oscillating unit, and

the switching means includes a second third switch which connects or disconnects the element to set the resonance frequency of the resonator in the oscillating unit outside of the oscillation enable normal operation range to and from the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state.

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12. (Currently Amended) A radar oscillator according to claim 2, characterized in that the oscillating unit has a power supply line for the amplifier means in the oscillating unit, and the switching means includes a third switch which opens or closes the power supply line for the amplifier means in the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between the oscillating state and the oscillation stop state

wherein the oscillating unit has an element to set a resonance frequency of the oscillator in the oscillating unit to a frequency which prevents a positive feedback from the output side to the input side of the amplifier means, thereby setting the resonance frequency outside of a normal operation range in the oscillating unit; and

the switching means includes a third switch which connects or disconnects the element to set the resonance frequency of the resonator in the oscillating unit outside of the normal operation range to and from the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby changing the operating state of the oscillating unit to the oscillating state or the oscillation stop state.

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claim 2, characterized in that comprising:

13. (Currently Amended) A radar oscillator according to

an oscillating unit having amplifier means, a feedback circuit which applies a positive feedback from an output side to an input side of the amplifier means and a resonator which resonates at the predetermined frequency, the feedback circuit and the resonator cooperating with the amplifier means to enable oscillation at a predetermined frequency, the resonator being connected to an input section or output section of the amplifier means, and the oscillating unit outputting and stopping an oscillation signal having the predetermined frequency from the output side of the amplifier means in an oscillating state and an oscillation stop state, respectively; and

switching means connected to the oscillating unit, the switching means including an electronic switch which, receives a pulse signal indicating a transmission timing of a radar wave, and changes an operating state of the oscillating unit to the oscillating state and the oscillation stop state at first and second levels of the pulse signal in order to intermit an output of the oscillation signal in response to a level of the pulse signal;

wherein the resonator is connected to the input section or output section of the amplifier means, and the oscillating unit outputs and stops the oscillation signal having the predetermined

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25 frequency determined by the resonator from the output side of the amplifier means in the oscillating state and the oscillation stop state, respectively;

wherein the oscillating unit selectively has a high frequency earth line, a power supply line for the amplifier means in the oscillating unit, and an element to set a resonance frequency of the resonator in the oscillating unit outside of an oscillation enable a normal operation range in the oscillating unit, and

wherein the switching means includes a plurality of switches obtained by selectively combining:

a first switch which opens or closes between at least one of the input section and the output section of the amplifier means in the oscillating unit and the high frequency earth line based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between \underline{to} the oscillating state and \underline{or} the oscillation stop state;

a second switch which connects or disconnects the element to set the resonance frequency of the resonator in the oscillating unit outside of the oscillation enable normal operation range to and from the resonator oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of

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the oscillating unit between \underline{to} the oscillating state and \underline{or} the oscillation stop state; and

a third switch which opens or closes the power supply line for the amplifier means in the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state.

14. (Withdrawn-Currently Amended) A radar oscillator according to claim 3, characterized in that wherein the oscillating unit has a high frequency earth line, and

the switching means includes a first switch which opens or closes is arranged to open or close between at least one of the input section of the amplifier at a first stage of the plurality of amplifiers and the output section of the amplifier at a final stage of the plurality of amplifiers and the high frequency earth line of the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state.

15. (Withdrawn-Currently Amended) A radar oscillator according to claim 3, characterized in that wherein the

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oscillating unit has an element to set the oscillating unit <u>to a</u> frequency which prevents a positive feedback from the output side to the input side of the amplifier means, thereby setting the resonance frequency outside of an oscillation enable a normal operation range, and

the switching means includes a second switch which connects or disconnects the element to set the oscillating unit outside of the oscillation enable normal operation range to and from the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state.

16. (Withdrawn-Currently Amended) A radar oscillator according to claim 3, characterized in that wherein the oscillating unit has a power supply line for said plurality of amplifiers serving as the amplifier means in the oscillating unit, and

the switching means includes a third switch which opens or closes the power supply line for at least one amplifier of the plurality of amplifiers in the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the

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oscillating unit between \underline{to} the oscillating state \underline{and} \underline{or} the oscillation stop state.

17. (Withdrawn-Currently Amended) A radar oscillator according to claim 3, characterized in that wherein the oscillating unit selectively has a high frequency earth line, a power supply line for said plurality of amplifiers serving as the amplifier means in the oscillating unit, and an element to set the oscillating unit outside of an oscillation enable a normal operation range, and

the switching means includes a plurality of switches obtained by selectively combining:

- [[a]] the first switch which opens or closes between at least one of the input section of the amplifier at the most frontal stage of said plurality of amplifiers serving as the amplifier means in the oscillating unit and the output section of the amplifier at the final stage of said plurality of amplifiers and the high frequency earth line of the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state;
- a second switch which connects or disconnects the element to set the oscillating unit outside of the oscillation

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enable normal operation range to and from the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state; and

a third switch which opens or closes the power supply line for at least one amplifier of the plurality of amplifiers in the oscillating unit based on the pulse signal indicating the transmission timing of the radar wave, thereby alternately changing the operating state of the oscillating unit between to the oscillating state and or the oscillation stop state.

Claims 18-25 (Canceled).